FOGELS, E, (Riga)

On the abstract theory of primes. Pt.2. Acta arithmetica 10 no.4:331-358 165.

1. Submitted January 13, 1964.

rogersor,	B. A.	Ti 12157
	USSR/Voltage - Measurements Mar 1946 Currents, Electric - High frequency	
	"Measurements of High-frequency Voltage," B. A. Fogelson, 6 pp	
	"Zhur Tekh Fiz" Vol XVI, No 3	
	Schematic diagram and connection diagram, with two characteristic curve graphs, of subject apparatus.	
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PHASE I BOOK EXPLOITATION

736

Fogel son, Boris Aronovich

- Volnovody (Wave Guides) Moscow, Voyen. 1zd-vo M-va obor. SSSR, 1958. 123 p. (Series: Radiolokatsionnaya tekhnika) Number
- Ed.: Vladimirov, V.T., Lieutenant Colonel; Tech. Ed.: Sribnis,
- PURPOSE: This booklet is addressed to officers attached to radio communications units and in genera? to officers working with radio facilities. It may also prove useful to others who wish to familiarize themselves with the operation of individual radar units and components.
- COVERAGE: The booklet is one of a series published by the Military Publishing House and entitled Radiolokatsionnaya Tekhnika (Radar Technique). A list of the titles already published in Card 1/8

Wave Guides

736

this series and of those to be published is given on the inside back cover. [A translation of the titles of this series is given below, following the Table of Contents.] The booklet gives a description and an explanation of the physical processes taking place in waveguides during the transmission of electromagnetic energy. This description is based on the physical implications of the Maxwell equations only. Numerous examples are given of basic component design of radar waveguide systems. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Introduction

Waves and Wave Movement
 General information

Card 2/8

3

5

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0"

KALASHNIKOV, Anatoliy Mikhaylovich, mayor; SLUTSKIY, Veniamin

Zakharovich; FOGEL'SON, B.I.; MUNVEZ-PRENKEL', I.Z.; GAYEVICH,
V.N., insh.-pedpekovnik; ebalchiy red.; TIKHONOV, S.N., insh.pelkovnik, red.; SOKOLOVA, G.F., tekhn.red.

[Frinciples of radio engineering and radar] Osnovy radiotekhniki
i radiolekatsii. Noskva, Voen.izd-ve M-va ebor. SSSR, Vol.2.
1959. 375 p.

(Radar) (Radio)

SLUTSKIY, Veniamin Zakharovich; FOGEL'SON, Boris Il'ich; LEVICHEV, Vladimir Grigor'yevich; YAGODIN, O.eg Gavrilovich; Prinimali uchastiye MUNVEZ-FRENKEL, I.Z.; STEPUK, Ya.V.; MATLIN, I.I., red.; SOLOMONIK, R.L., tekhn. red.

TO THE PROPERTY OF THE PROPERT

[Fundamentals of radar and radio engineering; display units, rectifiers, and transistor devices] Osnovy radiotekhniki i radio-lokatsii; indikatory, vypriamiteli i poluprovodnikovye pribory. By V.Z.Slutskii i dr. Moskva, Voen.izd-vo M-va oborony SSSR, 1961. 355 p. (MIRA 14:12)

(Radar) (Radio-Equipment and supplies)

KALASHNIKOV, Anatoliy Mikhaylovich; SLUTSKIY, Veniamin Zakharovich; Prinimali uchastiye: FOGEL'SON, B.I.; MUNVEZ-FRENKEL, I.Z., GAYEVICH, V.N., red.; TIKHONOV, S.N., inzh.-polkovnik, red.; KOKINA, N.N., tekhn. red.

TO THE PERSONAL PROPERTY OF THE PROPERTY OF TH

[Principles of radar and radio engineering; vacuum— tube devices and pulse techniques]0snovy radiotekhniki i radio-lokatsii; elektrovakuumnye pribory i impul'snaia tekhnika. Izd.2., perer. Moskva, Voenizdat, 1962. 385 p.

(Radio) (Radar) (Pulse techniques (Electronics))

PONTAL PROPERTY OF THE PROPERT

LEVICHEV, Vladimir Grigor'yevich; STEPUK, Yakov Vasil'yevich; FUGEL'SON,
Boris Il'ich; Prinimal uchastiye KALASHNIKOV,A.M.; MATLIN,I.I.,
red.; SOLOMONIK,R.L., tekhn.red.

[Prinicples of radio engineering and radar; radio transmitting
and receiving devices]Osnovy radiotekhniki; radioperedaiushchie
i radiopriemnye ustroistva. Moskva, Voenizdat, 1962. 494 p.

(Radio) (Radar)

(MIRA 16:1)

FOGEL'SON, B.I. PHASE I BOOK EXPLOITATION

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SOV/6294

- Levichev, Vladimir Grigor'yevich, Yakov Vasil'yevich Stepuk and Boris Il'ich Fogel'son.
- Osnovy radiotekhniki i radiolokatsii; radioperedayushchiye i radiopriyemnyye ustroystva (Fundamentals of Radio Engineering and Radar; Radio Transmitting and Receiving Devices). Moscow, Voyenizdat M-va obor. SSSR, 1962. 494 p. 60,000 copies printed.
- Ed.: I. I. Matlin; Tech, Ed.: R. L. Solomonik.
- PURPOSE: This book is intended for students in schools of Radio Engineering who are taking courses in Radio Engineering and Radar. It should also be useful to military personnel concerned with the operation of radio engineering equipment, as well as to those students in civil schools studying these subjects.
- COVERAGE: The book describes radio transmitting and radio receiving systems with emphasis on the physical aspect of the phenomena

Card 1/1/5 2

Fundamentals of	Radio Engineering (Cont.)	SOV/6294
taking place. whole, at the	The mathematics used in the volu- level of secondary school curricu	ume is, on the ula. Sections 1,

whole, at the level of secondary school curricula. Sections 1, 2, 3 and 11 of Ch. I and Ch. II were written by V. C. Levichev, sections 6 and 7 of Ch. I by Ya. V. Stepuk, sections 4, 8, 9 and 10 of Ch. I by B. I. Fogel'son, and section 5 of Ch. I by A. M. Kalashnikov. There are no references.

TABLE OF CONTENTS:

Ch. I. Radio Transmitting Devices 1. General information on radio transmitting devices 1. Block-diagrams of radio transmitters 2. The basic parameters of a radio transmitter	3
2. Separately excited vacuum-tube oscillators	5
1. Basic operating conditions of vacuum-tubes	6
and oscillators	_
2. Physical processes in a separately excited	6
oscillator during class A vacuum-tube opera-	
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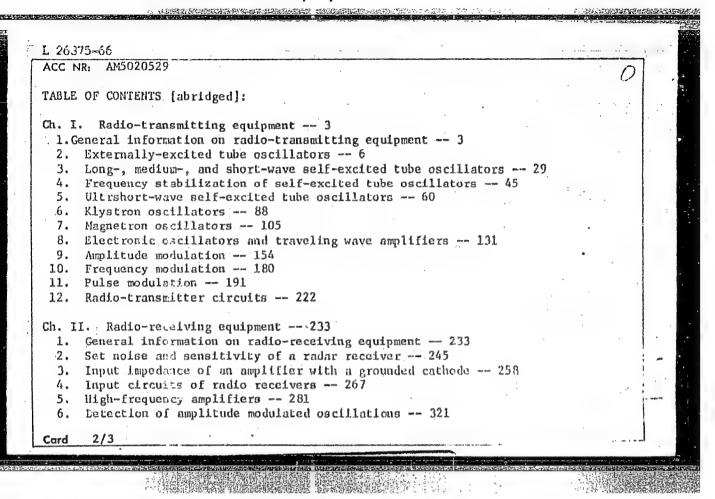
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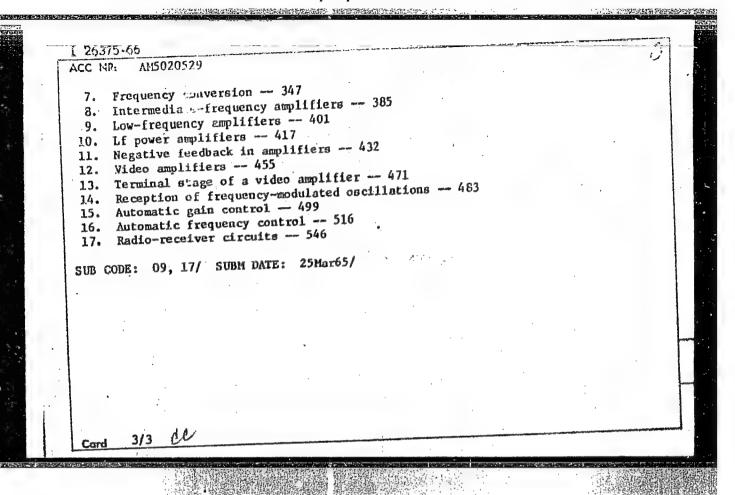
LEVICHEV, Vladimir Grigor'yevich; STEPUK, Yakov Vasil'yevich; FOGEL'SON, Boris Il'ich. Prinimal uchastiye KALASHNIKOV, A.M.; VLADIMIROV, V.T., red.

[Principles of radio engineering and radar; radio transmitting and receiving systems] Osnovy radiotekhniki i radiolokatsii; radioperedaiushchie i radiopriemnye ustroistva.

Izd. 2., perer. Moskva, 1965. 583 p. (MIRA 18:5)

EWITED /FSS=2 ACC NR: AM5020529 Monograph UR/ 26 Levichev, V. C.; Stepuk, Ya. V.; Fogel son, B. I. B+1 Fundamentals of radio engineering and radar; radio transmitters and receivers (Osnovy radiotekhniki i radiolokatsii; radioperedayushchiye i radiopriyemnyye ustroystva) 2d ed., rev. Moscow, 'Voyenizdat M-va obor. SSSR, 1965. 583 p. illus. 47,000 copies printed. TOPIC TAGS: radio transmitter, radio receiver, radio transmitter theory, radio receiver theory PURPOSE AND COVERAGE: This textbook is intended for students in radio engineering schools specializing in radio communications and radar. It may also be of interest to military officers engaged in the operation and maintenance of radio-communication, radar, and electronic equipment as well as to students in civilian radar and radio schools. This textbook is one of four volumes on the subject "Principles of radio engineering and radar". Radio transmitting and receiving equipment are covered in this volume. Considerable attention is paid to the physical side of phenomena occurring in the processes of transmission and reception Ch. I., section 1, 2, 3, and 12 and Ch. II were written by V. G. Levichev; Ch. I sections 6, 7, and 8, by Ya. V. Stepuk; sections 4, 9, 10 and 11 by B. J. Fogel son; and Ch. I section 5 by A. M. Kalashnikov. There are no references. - 500 Card





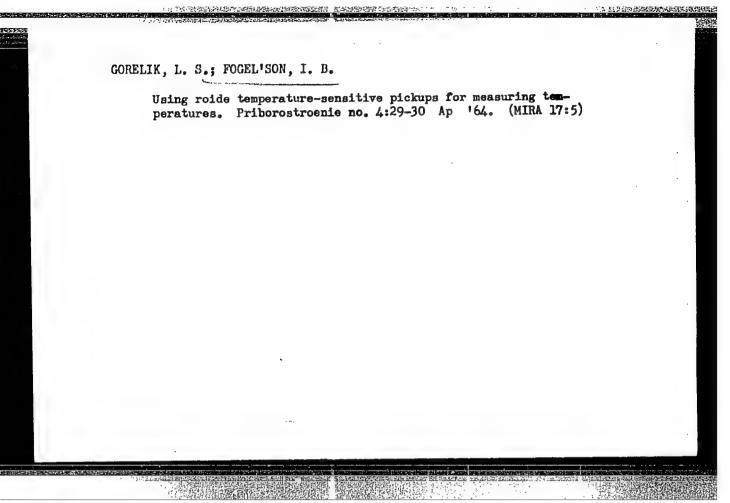
FOGEL'SON, B.A.; SHAROGORODSKIY, S.G., red.; MURASHOVA, L.A., tekhn.

[Gas-discharge devices] Gasorasriadnye pribory. Moskva, Voenizdat, 1963. 62 p. (MIRA 16:7) (Electron tubes)

FOCEL'SON, I.B.

Temperature measurement by germanium triodes. Prib. i tekh.
eksp. 9 no.1:227 Ja-F '64. (MIRA 17:4)

1. Ob"yedineniye elektronnogo priborostroyeniya "Svetlana".



ACCESSION NR: AP4043568

5/0146/64/007/004/0143/0149

AUTHOR: Fogel'son, I. B.

TITLE: Operation of a transistor as a thermosensitive element

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 4, 1964, 143-149

TOPIC TAGS: transistor, transistorized thermometer

ABSTRACT: A simple transistor circuit similar to the common-collector amplifier stage is suggested for measuring temperature, and the theory of its operation is presented. Analytical expressions are developed for current-voltage characteristics with an allowance for the generation and recombination of minority carriers in the base and the emitter efficiency. Ge transistors similar to the P-407 type but with a current gain over 200 were tested for their current-voltage and load characteristics within 0-100C. Emitter-voltage values as a function of temperature, for various load resistances, are tabulated.

Card 1/2

ACCESSION NR: AP4043568

Commercial P-13-16, P-12, P-25-26, P-406-407 transistors can be used as thermometers. Their higher sensitivity, better reproducibility, circuit simplicity, and reliability are seen as advantages of transistorized thermometers as compared to thermistors. Orig. art. has: 4 figures, 14 formulas, and 1 table.

ASSOCIATION: Agrofizicheskiy nauchno-issledovatel'skiy institut (Scientific Research Institute of Agrophysics)

SUBMITTED: 09Dec63

ENGL: 00

SUB CODE: 1E

NO REF SOV: 002

OTHER: 002

Card 2/2

AUTHOR: Fogel son- Ir Br

TITLE: Measuring temperature by silicon transistors

A14 14 1

SOURCE: Pribory* i tekhnika eksperimenta, no. 4, 1964, 194

ABSTRACT. The results of an investigation of p-n-p P104-106 and n-p-n P101-103 allow-unction silicon transistors functioning as thermometers are briefly. The above transistors as well as specially selected others of the same type out beying a higher (over 50) current gain were tested which? -430k, as a raind temperature, 423k was selected. An empirical formula for the emitter voltage expressed in terms of temperature and transistor parameters is suggested upply able to the above Soviet-made types). Orig. art. bas: 3 formulas.

(290, 18) (200, 19) (200, 18) - 5 (200, 10) - 5 (200, 20) - 5 (200, 20) - 5 (200, 20)

ASSOCIATION: Ob"yedineniye elektronnogo priborostroyeniya "Swetlana"

("Svetlana" Electronic Device Manufacturing Combine)

SUBMITTED: 31Jul63

ENCL: 00

SUB CODE: EC

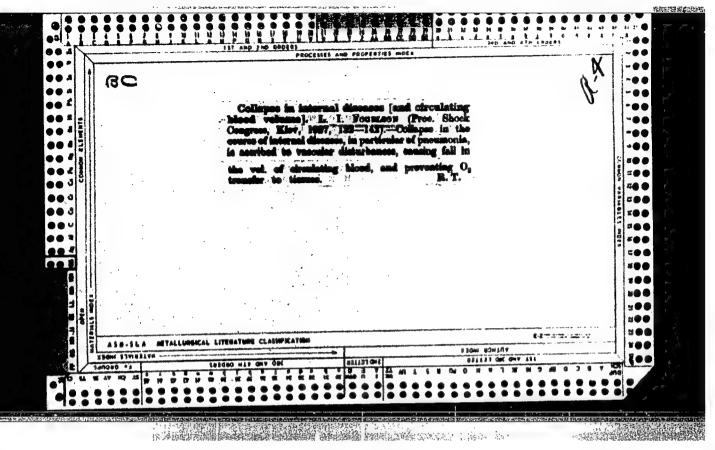
NO REF SUV: 001

OTHER: 001

Card 1/1

ACCESSION NE: AP5004600	e and	5/ 0115/64/900	0/012/0015/0019
AUTHOR: Fogel'son, I. I	B.	4	28
TITLE: <u>Temperature meas</u> SOURCE: Izmeritel'naya	$\omega_{\mathcal{M}}$		etector b
TOPIC TAGS: thermal det	tector, transistor ther	mal detector, germanium	m transistor/
transistor P407	stigation of Ge transis	tor thermal detectors.	the short-
ABSTRACT: In this investor current of the community for the analytic manufacture.	emitter junction served ical dependence of emit al calculations were verain in common emitted, have resistivity, the ctors are suitable for	as the main parameter ter voltage on tempera riffed by measurements from the state of the measuring temperature	on which Lure word out of the of out of the cauge
ABSTRACT: In this investor circuit current of the office that the analytic formulas tor the analytic formulas to the investor of the original development of the control of	emitter junction served ical dependence of emit al calculations were verain in common emitted, have resistivity, the ctors are suitable for	as the main parameter ter voltage on tempera riffed by measurements from the state of the measuring temperature	on which Lure wore water fails control of and the cange pores, 17

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ACCESSION NR: AP5004606
SUBMITTED: 00 ENCL: 00 SUB CODE: TO, E.C.
NO REF SOV: 001 OTHER: 006 ATD PRESS: 3187



FOGEL'SON, L. I.

27353. FOGEL'SON, L. I. Opyt ob"yedineniya terapevticheskoy kliniki s poliklinikoy.
Klinich. Meditsina, 1949, No. 8. s 30-33.

So: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

769 2 100N, h. T.

37594. Trudosposobnost' pri koronarnoy nedostatochnosti (ostroyi khronicheskoy).
Novosti Meditsiny, Vyp. 15, 1949. s. 37-41

S0: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

FOGEL'SON, L. I.

Industrial Hygiene

Working capacity and working conditions in heart diseases. Novosti med. no. 20, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April 195%. Unclassified.

FOGEL'SON, L. I.

Heart - Diseases

Congenital heart diseases. Novosti med. no. 20, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Unclassified.

FOGEL'SON, L. I.

Medicine

Diseases of the heart and of the blood vessels. Moskva, Izd-vo Akademii med. nauk SSSR, 1951.

Monthly List of Russian Accessions. Libfary of Congress, June 1952. Unclassified.

Principles in the evaluation of working capacity and organization of work in hypertension. Ter. arkh. 23 no.1:100 Jan-Feb 51. (CIML 20:8)

1. Professor.

- 1. FOGEL'SON, L. I.; IORISH, L. S.
- 2. USSR (600)
- 4. Heart-Infarction
- Regional diagnosis of myocardial infarcts from electrocardiographic data; first communication. Vop. pat. serd. sos. sist. 2 no. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000413410008-0

Fosel'son L. I

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1955)

Rame

Title of Work

Nominated by

Fogel'son, L. I.

"Diseases of the Heart and Blood Vessels" Ministry of Social Security
RSESE

80: W-30604, 7 July 1954

Working Capacity and Rehabilitation of Persons with Hypertension.

L. I. Fogel'son. (Ter. Arkh.) 26, 46-50, March-April, 1954.

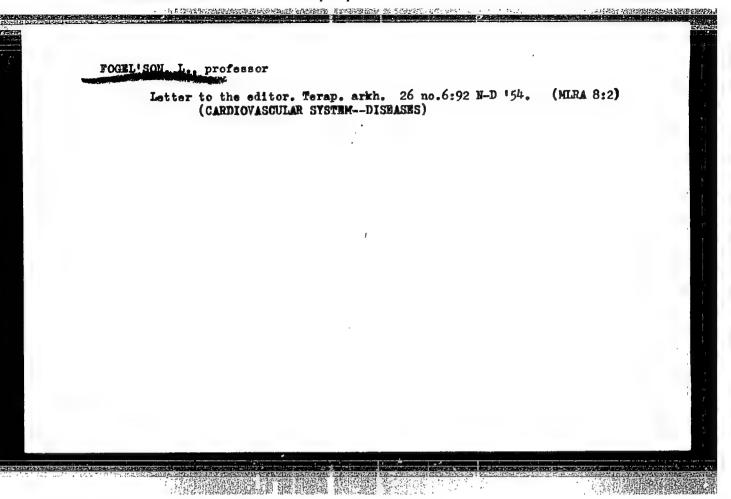
In a series of 980 hypertensive persons of various professions the blood pressure

was determined periodically before, during and after daily work.

From the results of this investigation the author concludes as follows. Routine work, involving a moderate degree of physical exertion only and carried out during the morning shift, often led, in mildly hypertensive subjects, to a decrease in blood pressure of about 10 to 30 mm. Hg systolic and 5 to 15 mm. Hg diastolic; but such a decrease was not observed if the work involved nervous tension. In similar circumstances, work during the night shift tended to produce a rise in blood pressure. Nervous and psychological tension tended to aggravate hypertensive disease, as was shown by a comparison of the daily blood pressure readings before and after work. Moderately hypertensive patients were found to be more susceptible to the comparatively slight stress and strain even of routine work. "Negative emotions" experienced during work produced a transient, but considerable, rise in blood pressure. Normal control subjects manifested no changes in blood pressure during a working day.

A. Swan

SO: ABSTRACTS OF WORLD MEDICINE Vol. 16 No. 5
Is terapewticheskogo otdeleniya (nauchnyy rukovotel' prof. L. I. Togal'son)
TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti
i organizatsii truda invalidov.



FOGEL'SON, L.I.

[Hypertension; determining ability to work and work placement]
Gipertonicheskaia bolesn', opredelenie trudosposobnosti i trudoustroistvo. Moskva, Medgis. 1956. 65 p. (MLRA 10:5)
(HYPERFENSION) (DISABILITY EVALUATION)

FOREL'SCN, L.I., professor (Moskva)

Work capacity and working conditions of patients following myocardial infarct. Klin. med. 34 no.1:29-34 Ja '56. (MERA 9:5)

1. Is terapevticheskoy kliniki (sav.-prof. L.I. Fogel'son)
TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposohonsti i organisatsii truda invalidov (dir.-prof. O.I. Sokol'nikov)

(MYOCARDIAL IMPARCTION

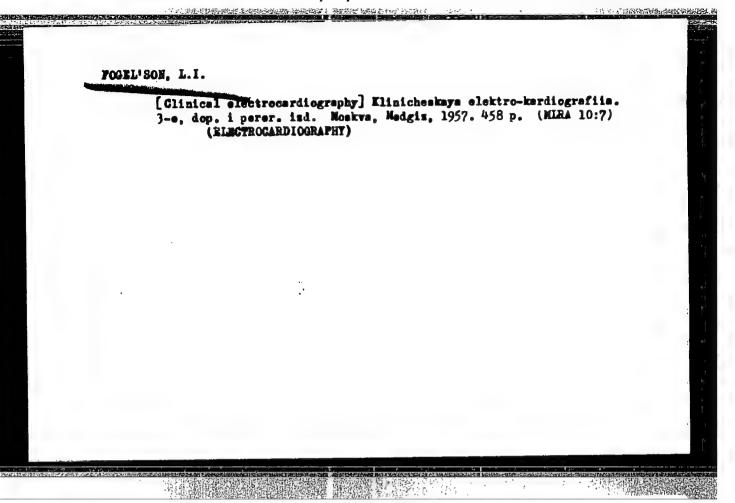
work capacity & working conditions following recovery)

(WORK

work capacity & working conditions after myocardial infarct)

MAZO, R.Ye.; FOGEL'SON, L.I., redaktor

[Characteristics of electrocardiograms of healthy children of various ages] Osobennosti elektrokardiogrammy zdorovykh detei rasnykh rozrastov. Pod red. L.I.Fogel'sona. Minsk, Gos. izd-vo BSSR, 1957. 104 p. (MIRA 10:7) (ELECTROCARDIOGRAPHY)



"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

Foge 1'50n, LI.

20-2-47/50

AUTHORS:

TITLE:

Millia, V. B., Fogel son, L. I.

On the Possibility to Use an Electric Stimulus in Order to Re-

store Normal Activity of the Heart in the Case of Flickering of Auricles (O vozmozhnosti ispol'zovaniya elektricheskogo stimula dlya vosstanovleniya normal'noy deyatel'nosti serdtsa pri mertsa-

nii predserdiy)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 331-334 (USSR)

ABSTRACT:

According to the commeptions of many researchers the flickering of the auricles and of the chambers are according to their nature closely connected processes which have the same pathophysiological mechanism. Since a strong electric stimulus was successfully used for the restoring of normal accitivity of the heart in the case of flickering arythmy was raised. This phenomenon was effected in dogs by stimulation of the auricles by an interrupted induction current. In the case of cats for this purpose a 10% CaCl2.solution was introduced intravenously. In all cases at different points an electrocardiogram was taken. Not in all dogs a relatively constant flickering could be produced. In the case of 7 of 10 it lasted only as long as the current action. In 2 cases of a current amplification in order to obtain a constant flickering also simultaneous flickering of the chambers was found. One succeeded in both cases to restore the normal activity of the

Card 1/2

On the Possibility to Use an Electric Stimulus in Order to Re- 20-2-47/50 store Normal Activity of the Heart in the Case of Flickering of Auricles.

heart by the condenser discharge. The results of the carried out work show a principal possibility of using a strong electric stimulus for the elimination of the flickering of the auricles of warm-blooded animals. The lack of a permanent positive action of a condenser discharge in the case of flickering effected by an injection of the CaCl2- solution is apparently to be traced back to the uninterrupted action of this factor during the electric stimulus. However, too low an intensity of this stimulus is not excluded. There are 3 figures and 8 references 3 of which are Slavic.

PRESENTED:

March 18, 1957, by L. S. Shtern, Academician

SUBMITTED:

March 6, 1957

AVAILABLE:

Library of Congress

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

POGEL'SON, L.I., prof.

Prevention of heart failure. Zdorov'e 5 no.2:13-15 7 '59.
(HEART FAILURE)

Work capacity of patients with coronary insufficiency. Vrach.delo no.12:1241-1247 D '59. (MIRA 13:5)

1. Terapevticheskmya klinika (zav. - prof. L.I. Fogel'son) Tsentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trude-sposobnosti invalidov. (HEART FAILURE) (DISABILITY EVALUATION)

工作44个学校的发展的工作。

FOGEL'SON, L.I., prof., red.; SOKOL'NIKOV, O.I., red.; GRITCHENKO,
N.V., red.; REL'CHIKOVA, Yu.S., tekhn.red.

[Disability evaluation in internal diseases] Vrachebno-trudovaja ekspertiza pri vnutrennikh bolezniakh. Moskva, Gos.izd-vo med. lit-ry, 1960. 349 p. (MIRA 13:11) (DISABILITY EVALUATION) (MEDICINE, INTERNAL)

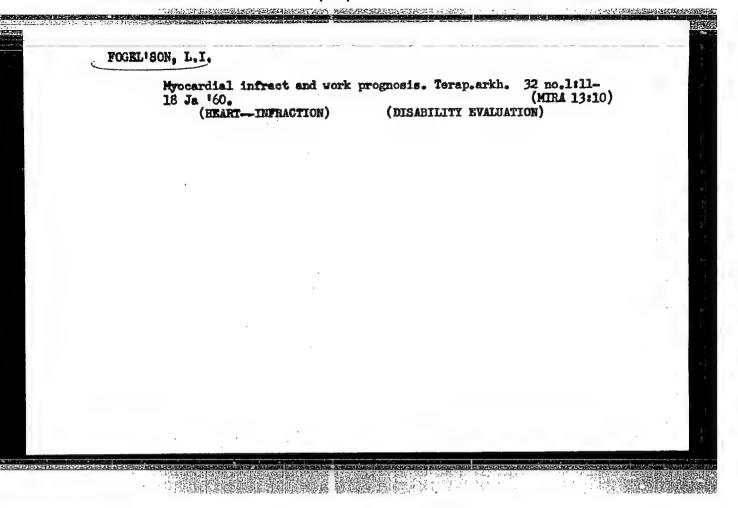
FOGEL SON L.I. prof.

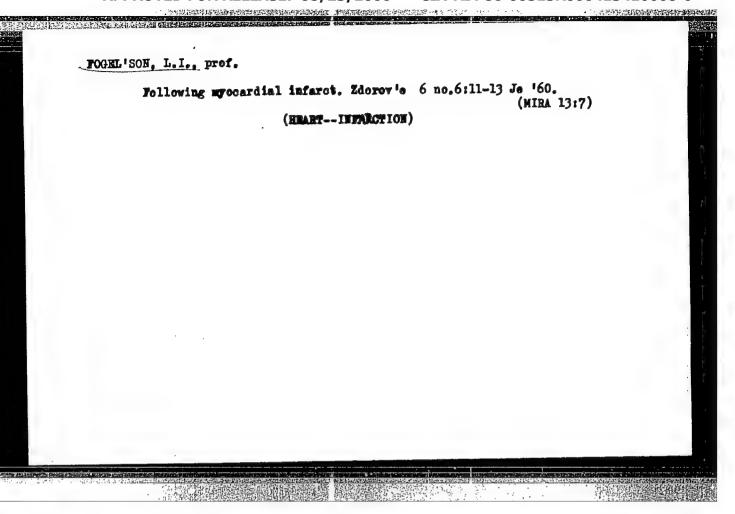
Disability evaluation in cardiosclerosis of diverse pathogenesis. Sov.med. 24 no.12:20-29 D '60. (MIRA 14:3)

1. Iz terapevticheskoy kliniki (zav. - prof. L.I.Fogel'son) TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (dir. - prof. D.I.Gritskevich).

(DISABILITY EVALUATION) (HEART-DISEASES)

(MYOCARDIUM)





"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

FOGEL'SON, L.I.

Treatment of auricular flutter and fibrillation, Klin. med. 38 (MIRA 14:1)

(ARRYTHMIA)

(ARRYTHMIA)

FOGEL'SON, L.I., prof. (Moskva)

Work capacity in cardiovascular diseases. Klin.med. 38 no.6860-68 Ag 160. (MIRA 13:11)

l. Iz terapevticheskoy kliniki (zav. - prof. L.I. Fogel'son)
TSentral'nogo nauchno-isaledovatel'skogo instituta ekspertimy
trudosposobnosti i organizatsii truda invalidov (dir. - prof.
D.I. Critskevich).
(CARDIOVASCULAR SYSTEM-DISEASES) (DISABILITY EVALUATION)

MAZO, Rakhil' Efraimovna; FOGEL'SON, L.I., prof., red.; KHOINAVSKIY,S., red.; SIDERKO, N., tekhn. red.

[Electrocardiograms of healthy children] Elektrokardiogrammy zdorovykh detei. Minsk, Izd-vo Akad.nauk BSSR, 1961. 197 p. (MIRA 15:1)

(Electrocardiography)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0"

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FOGEL'SON, L.I., prof.; SHIK, L.L., prof.; FREYDIN, L.M., dots.,
nauchnyy red.; BELYAK, A.S., tekhn. red.

[Diseases of the heart and vessels] Bolezni serdtsa i sosudov.
Moskva, Izdatel'skoe biuro tresta "Meduchposobie." Book 1. Atlas.
1961. 283 p.

(CARDIOVASCULAR SYSTEM—DISEASES)

(CARDIOVASCULAR SYSTEM—DISEASES)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

FOCEL'SON, L.I., prof.

Irregularity of the heart. Zdorov'e 7 no.6:12-13 Je '61.

(MIRA 14:7)

(ARRYTHMIA)

FOGEL'SON, L.I., prof.

Prognosis of the working capacity and indications for the rehabilitation of patients with rheumatic heart defects. Vop. revm. 2 no.2846-49 Ap-Je¹62 (MIRA 1783)

1. Iz terapevticheskogo otdeleniya (zav. - prof. L.I. Fogel'son) TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidow) direktor - D.I. Gritskevich).

FOGEL'SON, L.I., prof.

Work prognosis in rheumatic defects of the heart. Kardiologiia 2 no.2:58-64 Mr-Ap 162. (MIRA 15:4)

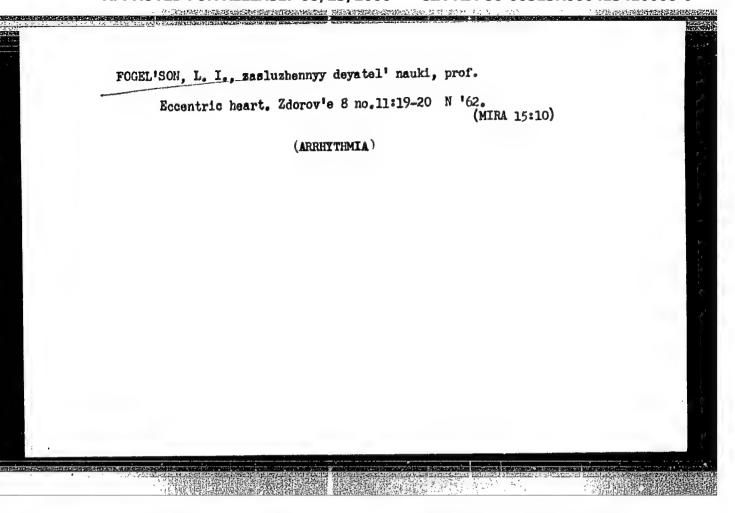
1. Iz terapevticheskoy kliniki (zav. - prof. L.I.Fogel'son) TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnesti
i trudoustroystva inválidov (dir. - prof. D.I.Gritskevich).
(RHEUMATIC HEART DISEASE) (DISABILITY EVALUATION)

VOLYNSKIY, Z.M., prof.; GILYAREVSKIY, S.A., prof.;

CEFTER, A.I., prof.; DEMIN, A.A., prof.; ZELENIN, V.F., prof.;

ISTAMANOVA, T.S., prof.; KEIROV, A.A., prof.; MESHALKIN, Ye.N., prof.; KEDROV, A.A., prof.; MESHALKIN, Ye.N., prof.; SAVITSKIY, N.N., prof.; FOGEL'SON, L.I., prof.; KHVILIVITSKAYA, M.I., prof.; LUKOMSKIY, P.Ye., prof., red. toma; MYASNIKOV, A.L., prof., otv. red.; TAREYEV, Ye.M., prof., zam. otv. red.; BAGDASAROV, A.A., prof., red.; BARANOV, V.G., prof., red.; VOVSI, M.S., prof., red.[deceased]; KURSHAKOV, N.A., prof., red.; MOLCHANOV, N.S., prof., red.; NESTEROV, A.N., prof., red.; SPERANSKIY, I.I., prof., red. [deceased]; ZAMYSLOVA, K.N., prof., red.; PERCHIKOVA, G.Ye., kand. med. nauk, red.; ERINA, Ye.V., kand. med. nauk, red.; LYUDKOVSKAYA, Yu.S., tekhm. red.; BEL'CHIKOVA, Yu.S., tekhm.red.

[Multivolume manual on internal diseases]Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Otv. red. A.L.Miasnikov. Moskva, Medgiz. Vol.1. [Diseases of the cardiovascular system]Bolezni serdechno-sosudistoi sistemy. Red. toma: P.E.Lukomskii i N.N. (MIRA 15:12) Savitskii. 1962. 686 p. (Continued on next card)



"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

FOGEL'SON, I.I.

Diagnostic errors and expertise on the prking capacity in cardiovascular diseases. Trudy Inst. klim. 1 eksper. kard. AN Gruw. SSR 8x331-335 163. (MTRA Inst)

1. Iz terapevticheskov kliniki TSestralinogo inatituia ekspertizy trudosposobnosti i organizatsii truda invelidov. Moskva.

FOGELISON, L.I., prof.

Hypertrophy of the left ventricule in hypertension, its diagnosis and significance in determining the stage of the disease. Kardic**logiia**. 3 no.3:22-27 My-Je'63. (MIRA 16:9)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i trudoustroystva invalidov (dir.-prof. D.I.Gritskevich).

(HYPERTROPHY AND DILATATION)

(HYPERTROPHY AND DILATATION)
(HYPERTENSION)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

FOGEL'SON, Lazar' Izrailevich, zasl. deyatel' nauki RSFSR. Prinimali uchastiye: GÖNCHAROVA, R.P.; KRASAVINA, G.L.; LEBEDEVA, O.V., kand. med. nauk; NOTKINA, F.Ya., red.

[Work capacity and indications for job placement in diseases of the cardiovascular system; scientific methodological fundamentals] Trudosposobnost! i pokazaniia k trudoustroistvu pri zabolevanii serdechno-sosudistoi sistemy; nauchno-metodiche-skie osnovy. Moskva, Meditsina, 1964. 243 p. (MIRA 17:5)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0

MAZO, Rakhil' Efraimovna; FOGEL'SON, L.I., zasl. doyatel' nauki, prof., red.

[Instrumental methods of heart examination in pediatrics] Instrumental mye metody issledovaniia serdtsa v pediatrii. Minsk, Nauka i tekhnika, 1964. 349 p. (MIRA 18:1)

FOGEL'SON, L.I.; YAZBURSKIS, B.I.

Radioelectrocardiography as a method of determining cardiac activity during the performance of work. Kardiologiia 4 no.4: 67-73 Jl-Ag * 64. (MIRA 19: 1)

1. Terapevticheskaya klinika (zav. - prof. L.I. Foge''son)
TSentral'nogo nauchno-issledovate''skogo instituta ekspertizy
trudosposobnosti i organizatsii truda invalidov (direktor prof. D.I. Gritskevich), Moskva. Submitted August 10, 1963.

(2019年10日) 中国特殊的问题 阿里达克斯特特特特的特别的特别的特别的

30027 \$/020/61/141/001/009/021 B103/B147

15.8620

AUTHORS:

Dogadkin, B. A., Tarasova, Z. N., Fogel'son, M. S., and

Kashlinskiy, A. I.

TITLE:

Interaction of sulfur with rubber under the action of

y- radiation

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 1, 1961, 90 - 93

TEXT: The authors studied the interaction of natural-rubber-sulfur (NR + S) mixtures under the action of γ - radiation (dose 6 - 11 Mr) at +20 and -196°C by means of electron paramagnetic resonance (epr). They used a spectrometer with high-frequency modulation at -140 - +20°C. Highly stable radicals were formed by irradiating NR and its mixtures with 2% S; their spectra were equal, their concentration was $(1-2.5) \cdot 10^{14} \text{ mg}^{-1}$, and after 30 - 45 days it was still $(0.05-0.1) \cdot 10^{14} \text{ mg}^{-1}$. Besides free alkyl radicals formed during irradiation of NR due to the disruption of an H atom and the rupture of Card 1/5

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30027 S/020/61/141/001/009/021 B103/B147

Interaction of sulfur with...

the -C-C bonds of the NR chains, radicals of the allyl type are also formed. They are stabilized by the effect of conjugation of the free valency with the adjacent double bond, and are assumed to be long-lived polymer radicals. When irradiated at -196° C, the NR spectrum differs from that of the S + NR mixture. Since each spectrum constitutes a superposition of lines, the existence of several radical types is assumed, The inhibitory effect of sulfur may be ascribed, as in benzene, to the delocalization of an electron in the eight-membered ring of the sulfur molecule. When the samples irradiated at -196°C are heated at room temperature for 1 - 1.5 min, their spectrum becomes equal to that of longlived radicals formed by irradiation of the same samples at +20°C. radicals of varying stability are formed by irradiation at -196°C. short-lived among them live for a few seconds at room temperature. concentration dropped by gradual heating of the samples (at intervals of 6-7°C) from -196 to +20°C in liquid-nitrogen vapor, and keeping the sample at given temperature for 5 min, as well as cooling to -140°C. On Card 2/5

30027 S/020/61/141/001/009/021 B103/B147

Interaction of sulfur with ...

heating from -196 to -120°C the spectrum was not changed. The range of intense destruction of radicals corresponds to the vitrification range of

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NR (between -80 and -50°C). The reactivity rapidly increases in the range of the mobility jump of individual links of the molecular chain. Here (as on heating of irradiated NR) only the initial short-lived radicals perish whereas in the S + NR mixture new short-lived radicals with a high g-factor are also formed. This is explained in two ways: (A) At least two new radicals are formed in the mixture, or (B) only one radical with an anisotropic g-factor containing an -S-S group is formed. Since the concentration of newly formed radicals is a function of heating with

a maximum at -80° C, it is concluded that at this temperature the ratio of the rate of formation to the rate of destruction of the new radicals is most favorable, effecting a maximum of recordable concentration. For the most distinct additional line characterizing the newly formed radicals, the g-factor is 2.027 ± 0.003 . Its value is equal to the one exhibited by sulfur radicals in the melt at 200° C. It is concluded that the new radi-

sulfur radicals in the melt at 200° C. It is concluded that the new radicals are due to interaction of S_8 molecules with polymer radicals R° of

Card 3/5

S/020/61/141/001/009/021 B103/B147

Interaction of sulfur with ...

NR under the action of y-rays. Below vitrification temperature, this interaction does not take place. It is based on the rupture of the eight-membered sulfur ring, and can only take place at temperatures permitting the required mobility of NR molecular chains: $R^{\circ} + S_{8} \rightarrow RS_{8} = RS_$

radicals are more active. The steric structure of rubber is a consequence of the interaction of R° with each other and with rubber molecules. The structure is formed in a temperature range in which, according to the epr, the radicals disappear most quickly when the irradiated NR thaws. S inhibits the formation of polymer radicals during irradiation. The Scontaining radicals can be stabilized by formation of cyclic end groups. Also this process reduces the cross links. An interaction of Sx° biradicals with molecular chains is possible; nevertheless, intramolecular

Card 4/5

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30027 \$/020/61/141/001/009/021 B103/B147

Interaction of sulfur with...

cyclic structures may form which do not increase the number of double bonds. Data of isotopic exchange show that polysulfide linear structures $S_{x}(x)$) occur in the vulcanizates. These structures increase the static strength of radiation vulcanizates. There are 4 figures and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: D. Gardner, G. Fraenkel, J. Am. Chem. Soc., 78, 3279 (1956).

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.

M. V. Lomonosova (Moscow Institute of Fine Chemical

Technology imeni M. V. Lomonosov)

PRESENTED: June 14, 1961, by A. A. Balandin, Academician

SUBMITTED: June 8, 1961

Card 5/5

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0"

5/190/62/004/008/010/016 B101/B180

AUTHORS:

Z. N., Fogel'son, M. S., Kozlov, V. T., Tarasova.

Kashlinskiy, A. T., Kaplunov, M. Ya., Dogadkin, B. A.

TITLE:

Epr study of the radiation vulcanization of rubber in the

presence of sulfur and hexachlor ethane

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 8, 1962,

1204-1209

TEXT: Recorded epr spectra were used to study the formation of free radicals during the radiation polymerization of natural rubber (NR) and mixtures of NR with 2wt.% sulfur or 10wt.% C2Cl6. Irradiation was. conducted at -196 - +20°C with Co 60 at a dose of 6 - 11 Mr. Results:

(1) Long-lived radicals with an initial concentration of (1-2.5)·10¹⁴mgform in NR and its mixtures with S or C2Cl6 at 20°C and 6-8Mr.

(2) Radicals of different lives form with irradiation at -196°C. initial concentrations in NR, NR + C2Cl6 and in NR + S are

Card 1/3

Epr study of the radiation

8/190/62/004/008/010/016 B101/I180

(4.9+0.7)·10¹⁵mg⁻¹, (11+2)·10¹⁵ mg⁻¹, and (2.6+0.6)·10¹⁵ mg⁻¹, respectively. The inhibiting effect of S is due to delocalization of an electron-in the S₈ ring. (3) If the NR + C₂Cl₆ sample irradiated at -196°C is slowly brought to room temperature, structuration occurs near the vitrification temperature (-70°C). Short-lived radicals disappear and the concentration of free radicals approaches the room temperature level. (4) Gradual heating of the NR + S sample yields new short-lived radicals with a g factor of 2.027 + 0.003 which is typical of S radicals. The radicals whose concentration reaches a maximum of approximately 6·10¹⁴mg⁻¹ at -80°C are formed by reaction between NR and S, the S₈ ring leing ruptured. (5) After irradiation crystalline C₂Cl₆ showed an intensive epr signal, from which it is assumed that various types of radical are formed. The formation of OCl₅ radicals was confirmed by the analytical detection of chloroform. (6) Structuration of NR irradiated at low temperatures is supported by C₂Cl₆ and impeded by S which increases Card 2/3

S/190/62/004/008/010/016 B101/B180

Epr study of the radiation ...

the static strength of the radiation vulcanizate. (7) Crystalline S showed only a weak epr signal. There are 5 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti

(Scientific Research Institute of the Tire Industry)

SUBMITTED: May 12, 1961

Card 3/3

为"自然的"的"全国的**的对对对自然的正理**"

KOTIMAR, V.N., doktor geol.-miner. nauk, prof., red.; APEL'TSIN, F.Ye., doktor geol.-miner. nauk, red.; YEROFEYEV, B.N., kand. geol.-miner. nauk, red.; LUGOV, S.F., doktor geol.-miner. nauk, red.; FOGEL'MAN, N.A., kand. geol.-miner. nauk, red.; KHRUSHCHOV, N.A., doktor geol.-miner. nauk, red.

[Materials of the Interdepartmental Conference on the Problem "The Ore Potential of Volcanic Formations"] Materialy Mezhvedomstvennogo soveshchaniia po probleme "Rudonosnost' vulkanogennykh formatsii." Moskva, Nedra, 1965. 324 p. (MIRA 18:6)

1. Mezhvedomstvennoye soveshchaniye po probleme "Rudonosnost" vulkanogennykh formatsiy," Moskva, 1963.

CIA-RDP86-00513R000413410008-0

KOTOSONOV, N.V.; AVERKIN, Yu.A.; FOGEL'SON, R.L.

Hall puckup as a super-high frequency indicator. Izm.tekh. no.7:
37-38 Jl '62. (Frequency measurements)

(MIRA 15:6)

ISOT110

USSR/Physics - Plastics

Mar 51

"Nature of Strong Deformation of High-Molecular Substances in the Vitreous State," Yu. S. Lazurkin, R. L. Fogelson, Inst Phys Problems, Acad Sci USSR

"Zhur Tekh Fiziki" Vol XXI, No 3, pp 267-286

Characteristic of plastics is temp of brittleness. (cf. Boyer and Spenser, "J Applied Phys" 15, 398, 1944; Uberreiter, "J Chem Phys" 18, No 4, 399, 1950). Studies phenomena of forced elasticity of high-mol substances and finds they obey formula: $\mathcal{T} = \mathcal{T}_0$ exp $(U - a \sigma)/kT$ giving relation between relaxation time (\mathcal{T}) of elastic deformation and temp (T) and tension (σ) .

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0"

LEVITSKAYA, M.A. : FOGEL'SON, R.L.

X-ray investigation of diffusion in two thin layers of metal. Isv.vys.ucheb.sav; chern.met. no.3:117-121 '60. (MIRA 13:4)

1. Voroneshekiy gosudarstvennyy universitet..
(Diffusion)
(X rays--Industrial applications)

FOGEL'SON, R.L.

On the duffusion equation. Fig. twer. tela 2 no.5:903-907 My '60.

1. Voreneshskiy gosudarstvennyy universitet.

(Diffusion)

1.71

9.4177

5/078/62/007/004/014/016 B107/B101

AUTHORS:

Ugay, Ya. A., Kotosonov, N. V., Fogel'son, R. L., Tkacheva,

TITLE:

Some properties of Ca, Sb, prepared by the method of S. A.

Vekshinskiy

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 4, 1962, 930 - 931

TEXT: The present paper describes the preparation of a thin film $(5-20\mu)$ of Ca, Sb,. The temperature dependence of the specific conductivity was measured (Fig. 2). The compound Ca3Sb2 has hitherto not been synthesized, and has only been mentioned by M. Hansen (see below). It was obtained by simultaneous evaporation of Ca and Sb in a vacuum of 10⁻⁵ mm Hg (method of S. A. Vekshinskiy; Novyy metod metallograficheskogo analiza splavov (A new method of metallographic analysis of alloys), Gostekhizdat, 1944). The vapor was collected by mica foils previously heated to 300°C. The resulting film transmits a narrow stripe of orange-colored light, corresponding to Ca3Sb2. The compound can be left in air for a long time. Card 1/32

Some properties of Ca₃Sb₂...

S/078/62/007/004/014/016 B107/B101

The resistance was measured with electrodes deposited on the foils by the evaporation of antimony. Preliminary experiments had shown that the resistance of antimony was negligible. The resistivity of calcium antimonide at room temperature is 104 ohm cm. The measurements are well reproducible. The distance between the valency band and the conduction band was calculated to be 1.4 ± 0.1 ev. Calcium antimonide is a slightly photoconductive compound. Its photoconductivity is increased by an oxide film which forms when the system is left without further evacuation. There are 2 figures and 7 references: 6 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: M. Hansen. Constitution of Binary Alloys. New York, 1958.

ASSOCIATION: Voronezhakiy gosudaratvennyy universitet (Voronezh State University)

SUBMITTED: February 20, 1961

Fig. 2. Specific conductivity of Ca₃Sb₂ as a function of temperature.

Card 2/3

S/181/62/004/008/034/041 B108/B102

AUTHOR:

Fogel'son, R. L.

TITLE:

The first diffusion equation ...

PERIODICAL: Fizika tverdogo tela, v. 4, no. 8, 1962, 2269 - 2271

TEXT: Experiments showed that a diffusion equation of the type $j = -\frac{\eta}{\eta x}(Dn)$ does not exactly render what actually happens in diffusion. The true process of diffusion should rather be treated similarly to a viscous flow.

It is stated that an equation of the type $j = -L\frac{\partial \mathcal{M}}{\partial x}$ (\mathcal{M}^- chemical potential) is the best rendering of the true process of heterodiffusion. This was also stated by I. E. Reynolds et al. (Acta Metall., 5, 29, 1957). The self-diffusion coefficient D' is then related to the coefficient of heterodiffusion D through the formula D' = D(1 + $\frac{\partial \ln \mathcal{M}}{\partial \ln n}$), where \mathcal{M} is the coefficient of activity. There is 1 figure.

Card 1/2

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CIA-RDP86-00513R000413410008-0

S/181/62/004/008/034/041

The first diffusion equation

S/181/62/004/008/034/041

B108/B102

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: Pebruary,7, 1962 (initially), April 25, 1962 (after revision)

Investigation of semiconducting phases based on antimony. Ya. A. Ugay.

PLINGWIR ACCORDER SOURISMENTS PRINTED SECURIOR BURNELLIS SIX SECURIOS (1991) (1991)

Semiconducting phases in the system zinc-antimony. Ya. A. Ugay, Ye. M. Averbakh.

[Study and some properties of thin layers of inclum phosphide. Ya. Ugay, R. i. Fogel'son, V. V. Lavrov. (Not presented).]

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

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EWT(1)/BDS--AFFTC/ASD/ESD-3--

IJP(C)/TF ACCESSION NR: AP3003209

\$/0115/63/000/006/0041/0042

AUTHOR: Fogel son, R. L.; Kotosonov, N. V.

1975年中华中华中华中华的

TITLE: Apparatus for measurement of magnetic field intensity

SOURCE: Izmeritel naya tekhnika, no. 6, 1963, 41-42

TOPIC TAGS: magnetic field intensity measurement, magnetometer

ABSTRACT: A magnetymeter based on the Hall effect is described. The Hall emf on a 15 x 5 x 1 mm Ge strip with a Hall constant of 1.6 x 10 sup 4 cm sup 3/k is measured by the compensation method, with a vibration galvanometer serving as the indicator. The overall measurement range is 1000--30,000 ce. The measurement error of the device does not exceed 1%, and its sensitivity is said to be high. It works on 50-cycle ac, is portable, and can be used for measurements in relatively narrow gaps. Orig. art. has: 1 figure.

ASSOCIATION: none SUBMITTED: 00

SUB CODE: OO

DATE ACQ: 22Ju163 NO REF SOV: 000

ENCL: 00 OTHER: CO1

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000413410008-0"

ACCESSION NR: AP4041363

5/0048/64/028/006/0998/0999!

AUTHOR: Ugay, Ya. A.; Averbakh, Ye. H.; Fogel'son, R. L.; Gol'dfarb, V. A.

TITLE: Some properties of thin indium phosphide layers

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 28, no. 6, 1964, 998-999

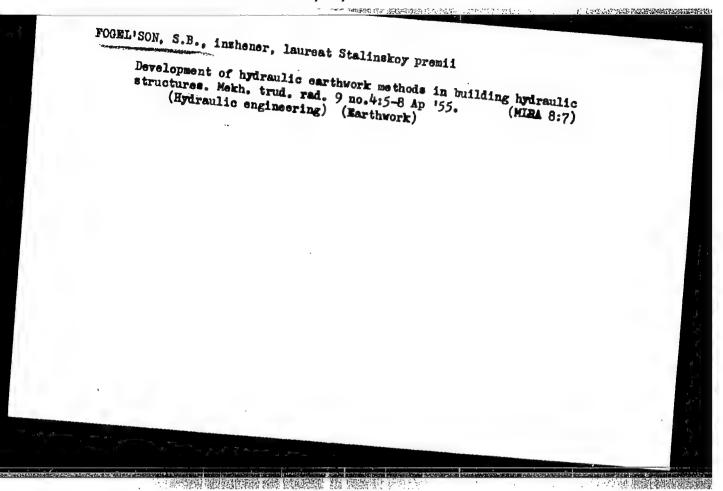
TOPIC TAGS: indium, indium phosphide, indium phosphide film, indium phosphide property, film property, film electric conductivity

ABSTRACT: The temperature dependence of electric conductivity of indium phosphide twin films and of their limit of absorption in the longwave range have been investigated. Films were produced by a separate vacuum vapor deposition of components, first of indium and, then of phosphorus, under pressure of about 10-5 mm Hg at 400C. Electron diffraction patterns of the films corresponded to those of the InP compound. The temperature dependence of electric conductivity of inp films 0.55-0.06 m thick was determined at 20-500C. One of the two films investigated was first annealed in vacuum at 250C.

for 3 hr. As shown in the diagram (see Fig. 1 of the Enclosure), the electric conductivity of the films at high temperature is almost identical. The width of the forbidden zone determined from this diagram isl.42 ev. The width of the forbidden zone determined from the longwave absorption edge was 1.27 ev. The higher value obtained from the temperature dependence of electric conductivity is explained by partial decomposition of indium phosphide at high temperatures. Orig. art. has: 2 figures. ASSOCIATION: Voronezhakiy gosudarstveny*y universitet (Voronezh State University) SUBMITTED: ATD PRESS: 3058 ENCL: SUB CODE: NO REP SOV: 002 OTHER:

FOGEL'SON, 3. B.	Hingschaurskiy, and Gor'kiy hydroslectric to 53/49135 USER/Engineering (Contd) Stations. Gives characteristics of two types of hydralic dredges which will be used extensively. In future construction work, the 300-40 (FORZ) and the GM (12NZ).	t of Nydr. realectr.	USSR/Engineering Dredges Eydroelectric Stations
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246735	the Gidromekhanizatsiya Trust of Ministry of Electric Power Stations, USSR worked out and introduced under the guidance of Engr V. A. Platonov the hydraulic-fill-without-scaffolding method of constructing earthen dama. By this method of constructing earthen dama. By this method of constructing earthen dama and of the pipe, additional pipe sections being added as the work progresses. On completion of the first layer progresses of earth the length of the dam, the pipe is progressively shortened by detaching sections as a layer of earth is deposited in the pipe is kept elevated 15-20 cm above the deposit. The pipe sections are joined or detached as needed by the fitting and to allow uninterrupted flow of pulped. States that member of man-days required for ease and. States that member of man-days required for the pipe of the pipe section has one widened function for any control for the pipe section and of hydraulic fill was reduced from for the pipe section and of hydraulic fill was reduced from for the pipe sections are of ann-days required for ease and of hydraulic fill was reduced from for the pipe section and of hydraulic fill was reduced from for the pipe section and of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section and of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of hydraulic fill was reduced from for the pipe section of the pipe section	Mekh Trud 1 Tyazh Rabot" No 1, pp 28-33	and the second	USSR/Ingineering - Construction, Jan 53 Hydraulic-Fill Dams



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112-57-7-14209

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 62 (USSR)

AUTHOR: Fogel'son, S.B.

TITLE: New Engineering Achievements in Building Hydroelectric Stations (Novyye tekhnicheskiye dostizheniya v stroitel'stve gidroelektrostantsiy)

PERIODICAL: Tr. 2-go nauch. -tekhn. soveshchaniya po proyektir. i str=vu gidroelektrostantsiy. M. -L. (Transactions of the Second Scientific and Engineering Conference on Designing and Building of Hydroelectric Stations), 1956, pp 85-99

ABSTRACT: Hydromechanization has come into wide usage in recent years. New high-power equipment for hydraulic sluicing of dams, etc., has been constructed and put into operation in Mingechaur, Kama, Kuybyshev, Stalingrad, Kakhovka, and other hydroelectric developments. Dredge pumps with capacities up to 10,000 m³ of pulp per hour have been used. The total capacity of available dredge pumps has reached 270,000 m of pulp per hour. However, use of dredging devices is far from adequate because of the low level of auxiliary work. Heavy wear of equipment, fittings, and pipes by handling gravel and sand masses causes considerable outages. The technology of handling coherent

Card -1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413410008-0"

112-57-7-14209

. New Engineering Achievements in Building Hydroelectric Stations

soils with dredging devices has not yet been solved in practice. At present, specifications are being worked out on dredging equipment for hydropower developments. The no-trestle method of hydraulicking has been fully mastered for gravel-and-sand soils and coarse-and medium-grained sands, and construction work can be performed along the entire front of the installation in question. Working soil by floating dredging devices has been widely used. Underwater winter hydraulicking, which has been proven possible, constitutes only a small part of the hydraulic sluicing of dams. Overwater hydraulicking constitutes a considerably greater part of the entire work, and a rational technology of this type of work, for use in winter, should be developed experimentally at a construction-project site. Availability of new high-power equipment necessitates considering the most productive and economical methods of building works in the design of stations.

A.Yu.F.

Card 2/2



BELYAKOV, A.A.: ERISTOV, V.S.; DEMENT'YEV, M.A.; BORODIN, P.V.; FOOEL'SON, S.B.; PLATOMOV, V.A.; IORISH, Ye.L.; GALIFERIN, R.S.

Letter to the editors. Gidr. stroi. 26 no.4:52-53 Ap '57.
(Dame)

(MIRA 10:6)

8(6), 14(10)

SOY/112-59-4-6751

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 50 (USSR)

AUTHOR: Fogel'son, S. B.

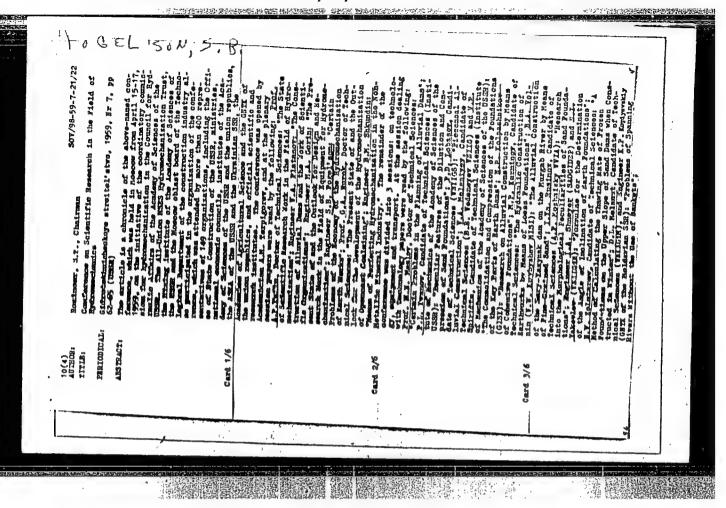
TITLE: Hydraulic Sluicing in Hydro-Power Constructions

PERIODICAL: V sb.: Energ. str-vo SSSR za 40 let. M.-L., Gosenergoizdat, 1958, pp 130-142

ABSTRACT: The history of earthwork by hydraulic sluicing is described, beginning from 1927 when as much as 1,000,000 m³ of soil was moved by this method at Dneprostroy. Recently, the share of earthwork done at the largest projects of the country by this method reached 98-99%, with the total amount of work going as high as 103,500,000 m³ (Kuybyshev hydroelectric station). Modern dredges are described, as well as their capacities, procedures, engineering and economic characteristics of hydrolicking, and the participation of research institutes in perfecting the hydrolicking methods.

A.A.K.

Card 1/1



9(4)

SOV/112-58-3-4678

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 188 (USSR)

AUTHOR: Fogel'son, T. B.

TITLE: Hydrogen Thyratrons (Vodorodnyye tiratrony)

PERIODICAL: Tr. N.-i. in-ta. M-vo radiotekhn. prom-sti SSSR, 1957,

Nr 4(40), pp 75-111

ABSTRACT: Ratings of hydrogen thyratrons manufactured by foreign companies are considered, as well as their functioning principles, construction, and application schemes. There are 12 types of thyratrons with a pulse power between 50-2,500 kw manufactured in the USA at present. In 1953, three high-power thyratrons were announced: 5949 (1907, 5948), 1754, and 1257, having pulse powers of 6.25, 12.5, and 33 Mw, anode voltages of 25, 25, and 33 kv, and anode currents of 500, 1,000, and 2,000 amp respectively. The following periods can be discerned in the discharge development: (1) the time between the grid-pulse start and the moment of the grid-voltage drop caused by grid current; the anode voltage remains constant over this period; (2) the time

Card 1/2

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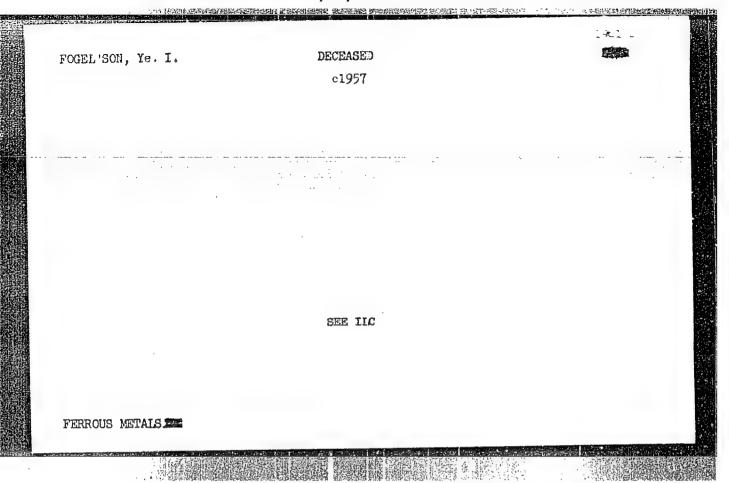
Hydrogen Thyratrons

between the moment of appearance of the grid current and the start of an appreciable anode current; (3) the time between the appearance of the anode current and the establishment of its final value, i.e., the switching time $(10^{-7}-10^{-8}\text{ sec})$. The power released in the thyratron over the period of discharge formation constitutes 20-40% of the total power released in the device over the period of both formation and load current. Thyratron construction and subassemblies are described. The cathode temperatures used are: $730-750^{\circ}\text{C}$ determined by the cathode emission capabilities through $850-860^{\circ}\text{C}$ limited by barium vaporization; pulse-current densities are 8-10 amp/cm² for low-power thyratrons and 5-6 amp/cm² for high-power thyratrons. Because of the positive firing characteristic, thermionic currents are less dangerous to the hydrogen thyratron than to a conventional one; this permits operation with grid temperatures up to $350-370^{\circ}\text{C}$. Sectionalized anode leadins are recommended for higher voltages. This construction permits increasing the electric strength of the lead-in almost twice. Bibliography: 21 items.

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Card 2/2

pa *	The conference was organized by the Ac.Sc.USSR, the Ministry of Higher Education and Nozow State University. The pression — Packhods of Reducing the Snargy Lost in the Lord Breakdonn. Lat. Fivowar and V.I. Goydayene — Microdischarges and Pre-breakdown Currents Setwan Notal Ricctrodes in High Channel. The Signature and G.P. Estato - Three States of Microdischarges and Channel.	Tritaking and the fine of the fine of the fine of the stratefor of the electrode of the or of the electrode of the or of electric the problems of electric the problems of electric the problems of electric the or of electric the or of electric the or of electric the order of electric the order of electric the order of electric the following papers	"In indicate at al. "Probe investigation of the a.e. o	ods of Unipolar Ionisation of a (see p 1355 of the journal). Specific of the Radation of approduction of Righ rk Discharges". Of the Manete Field of of the Surface of Two Media". a From the Study of long	of the Breakdown of Compressed in Field in the Freence of the Contillographic of the Discharge Lage of the Journal, of the problem of the creaton (see p 1530 of the	ded down by 5, Tu. Luk'yanov concretionary and Luk'yanov collouiz, papers were read; blud - Tie Mature of the the Kredric Explosion of c Plassa From Local Pulse ervation of an Riestro-	Whens of an Electron-optical may - "Investigation of	agreement the optaion that there and the terms of the optaion that the scale should a secondary to than that the terms that the optaints to the optaints that the optaints the optaints that the optaints the optaints that the optaints the optaints that the optaints the opta
44/2120 SOV/109-4-8-22/55 G.V. AUTHORS: Sirotenker, F.L., Luk'yanov, 5.fu., Spirak, G.V. Sirotenker, I.G., Export on the Second All-Union Conference on Gas FERIODICA: Radockshanka i elektronika, 1959, Vol 4, Nr 5 PERIODICA: Bod 1959, Vol 4, Nr 5	ABSTRACT: The conference was organiated to the content of Higher Educations of Higher Education of Threstedorn's pro-bestadorn Currents Between Years and V.I. Gordin Years and V.I. Gordin Precessing Propose and V.I. Estables Tantaltician and Processing Tantaltician and Processing Tantaltician and Processing Tantaltics and Proces	Bischarge is Vacuum* E.M. Sykhradal and G.V.Sollistas of Ignition in High-vital-states of Ignition in High-vital-states of Ignition in High-vital-states of Ignition in High-vital-states of Ignition of All and Inches of Ignition of Ig	coron Filterio et al. "Probe coron Filterio et al. "Elseente En al. "Elsee	10-3 - 1.0 cm Hg". Ya.Yu. Bayses.ed. al "Nichh Air By Maans of Asro-Jonisor. H.P. Karnikov et al "Time a Spark Discharge in Insert of Journal). Yes. Presyngar and Ash. Nik. Temperatures by Means of Spar Temperatures by Means of Spar England - "Influence England - "Influen	Sperker - Sproperties of Air in Comperties of Air in Compertively United Air in Comperties of Air Westerland Committee of Air Westerland Comperties for the Memurent Distance of Comperties of Compering Apper by P.M. 2010/14/14 design	The Courts seetlen was presided over by S.Tu. Luklyhno and was concerned with the mon-stationary and low-frequency discharges. The Collowing payers were result frequency discharges. The Collowing payers were result and backethrifth and A.A. Lubud - The Nature of the Current Engraphic of the A. Result in the Nature of the A. Result in the Nature of the A. Result in the Nature of the A. Shonny - Propagation of Plassa From Local Pulse Sources. **A. Shonny - Propagation of Plassa From Local Pulse Sources.**	Converter of the pressed Arc B Converter of the Redial Electron M. S. Enter and Year Number of the Redial Electron Model of a System visite of the Madrianov et al. "District of the Model of Electron District of the Model of Electron District of the Model of England) - "Specifical Electron Converter of the Model of England "Specifical Electron of E	The part by Marding aroused and adequated and adequated and its fulfathmental. The alectrons and ion tenture. The of the aume order; instead the electron temperature is a finite of the ions.



z/009/61/000/008/003/005 E112/E153

AUTHORS: Kalafut Št. and Fogltanc, M.

TITLE: The effect of modifiers on viscose gel formation

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PERIODICAL: Chemický průmysl, 1961, No.8, pp. 433-438

The present paper deals with modifications of the regeneration behaviour of cellulose, produced by the addition of modifiers. Their function is the slowing down of xanthate decomposition, in order to prolong the period when effective stretch and orientation may be applied. The mechanism of viscose regeneration in the presence of a modifier in a zinc spin bath is discussed. The modifier markedly affects the comparative penetration rates of the zinc and the acid components of the spin Zinc cellulose xanthate formation is much more extensive and can actually occur throughout the entire filament ahead of acid in regenerating concentration. Because the decomposition of the zinc cellulose xanthate is considerably slower than that of the sodium xanthate, the overall regeneration is markedly decelerated, and a fairly discrete zinc xanthate zone is established. The action of the modifier is in effect that of a selective sieve permitting Card 1/4

Z/009/61/000/008/003/005 E112/E153

The effect of modifiers on viscose ... E112/E153

passage of zinc ahead of acid. The viscose-making process converts the cellulose raw material into the alkali-soluble sodium cellulose xanthate. Upon extrusion into the acid bath this salt is converted into the cellulose xanthic acid and sodium sulphate. It is the primary object of this paper to investigate the effects of sodium sulphate upon the solubility characteristics of two typical modifiers, namely polyethylene glycoles and N-methylcyclohexylamine It is proposed that under neutral, alkaline and acidic conditions. sodium sulphate acts as a salting-out agent on both modifiers, promoting their separation as fine precipitates on the fibre surface and retarding the diffusion of sulphuric acid. The retarding of the overall regeneration process results in the spinning filament being in a plastic and stretchable state for a considerably longer period of time than in the normal spinning process. The authors have also established that a subsequent treatment with zinc ions of fibres which were coagulated in absence of zinc sulphate failed to retard gel formation or neutralisation times. Cross-sections of the fibres were inhomogeneous, even if modified viscose was used. Details of experimental procedure are Card 2/4

The effect of modifiers on viscose... Z/009/61/000/008/003/005

given as follows. 1) The solubility of the main types of modifiers in presence of Na2SO4 was determined under neutral, alkaline and acid conditions. 2) Main types of modifiers were reacted with CS2 and solubilities of reaction products were 3) A number of determined in presence of Na2SO4, as under 1). the recommended modifiers with different solubilities in presence of salts were compared in their retarding action on gel formation, and cross-sectional photomicrographs were prepared. 4) Primary and secondary diffusion rates of zinc ions were determined. Results were assessed generally by determining the D-values of the regenerated fibre according to procedure described in B.P. 762772. The following tables are submitted: 1) Solubilities of different modifiers in presence of Na2SO4 under neutral, alkaline and acid conditions; 2) Effect of zinc ions on modified viscose on first contact of the zinc bath with the forming fibre; and 3) Effects of zinc ions on modified viscose on secondary contact of fibre with the zinc bath. Cross-sections of fibres after use and without use of modifiers are shown. (Solophenyl Bluegreen BL was used to dye There are 6 figures, 3 tables and 7 the cross-sections,) references: 5 English, 1 German and 1 Swedish. Card 3/4

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Z/009/61/000/008/003/005

ASSOCIATION: Výskumný ústav chemichých vláken, Svit (Research Institute for Synthetic Fibres, Svit)

SUBMITTED: February 13, 1961

The four most recent English language references read:

Ref.1: Text. Res. J. 1959/I.32

Ref.4: Austr. patent 209 820, 209 821

Ref.6: BP 652 741, 652 746, 654 083, 741 727, 741 728, 762 772.

Ref.7: USP 2 515 834, 2 515 889.

Card 4/4

21574

S/020/61/137/003/028/030 B103/B208

11. 8300

AUTHORS:

Svetlov, B. S., and Fogel'zang, A. Ye.

TITLE:

Burning of lead styphnate

PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 3, 1961, 654-655

TEXT: The authors studied the burning of initiating explosives, particularly of lead styphnate (Pbst). Contrary to other initiating explosives (mercury fulminate, trinitrotriazobenzene) which burn very quickly and steadily in pressed state, the burning rate of Pbst could not be studied in spite of a high pressing density, because the charge exploded. Only by adding large quantities of other substances these charges burned with high velocity. Pbst was pressed with a pressure of 5000 kg/cm² into plexiglass tubes (thickness of the wall 2 mm, inside diameter 4 mm). In this way, a steady and uniform burning of Pbst was attained over the entire length of the charge. The authors studied the dependence of the burning rate on the pressure in a wide range. Burning was recorded by a photographic recorder. Fig. 1 illustrates the dependence mentioned above. The authors conclude therefrom that Pbst is able to burn even at

Card 1/3

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21574 S/020/61/137/003/028/030 B103/B208

Burning of lead styphnate

very low pressure. Its burning rate is very high even at 15 mm Hg (25-26 cm/sec). Pbst burns vigorously and with an explosion-like noise, although the tube, as a rule, remains intact, and the photographic recorder shows a constant burning over the entire length of charge. Bad pressing gives rise to an explosion after a comparatively short range of steady burning, the tube breaking into pieces. For comparison, Fig. 1 includes diagram (1) of the burning of lead picrate which does not burn at low pressure (below 20 kg/cm²). In the range where lead picrate burns under the given conditions, it burns nearly 30 times more slowly than Pbst. The maximum difference is 10-15% at a pressure of more than 200 kg/cm². At atmospheric pressure, the burning rate of Pbst exceeds that of similar explosives by about 15-20 times. A rapid change from burning to detonation is not warranted by a high burning rate alone. There are 2 figures and 3 Soviet-bloc references.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

Card 2/3

SVETLOV, B.S.; FOGEL'ZANG, A.Ye.

Pulsating combustion of iron picrate. Vzryv. delo no.52/9: 221-225 '63. (MIRA 17:12)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.